

ABSTRACT

A PLL circuit and method provides an adjustable operating frequency range by using at least two VCOs. In an embodiment of the present invention, circuit components of a PLL are adjusted in order to obtain a selected frequency
5 range. In particular, a gain of a charge pump and resistance of a filter is adjusted responsive to a control signal. In alternate embodiments of the present invention, a voltage regulator, including an operational amplifier, is coupled to the output of the filter and the respective inputs of two VCOs. An output multiplexer then selects a VCO output responsive to the control signal. In another embodiment of
10 the present invention, a multiplexer is coupled to the output of the voltage regulator to select which VCO receives a buffered voltage. In another embodiment of the present invention, respective operational amplifiers that may be enabled or disabled responsive to the control signal are coupled to a filter output and respective VCO inputs in order to provide an adjustable frequency
15 range.